

Date: Thursday, 4/12/2007 8:44:47 AM
 User: Kim Johnston

Process Sheet

| | |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|
| Customer : CU-DAR001 Dart Helicopters Services | Drawing Name : SADDLE FITTING, FWD (OUTBOARD/INBOARD) |
| Job Number : 31714 | |
| Estimate Number : 10531 | |
| P.O. Number : <u>N/A</u> | Part Number : D2572 |
| This Issue : 4/12/2007 S.O. No. : <u>N/A</u> | Drawing Number : D2572 REV E |
| Prsht Rev. : <u>NC</u> | Project Number : <u>N/A</u> |
| First Issue : <u>N/A</u> Type : MACHINED PARTS | Drawing Revision : <u>E</u> |
| Previous Run : 31648 | Material : <u>N/A</u> |
| Written By : <u>JA 07.04.12</u> | Due Date : 4/30/2007 Qty: 12 Um: Each |
| Checked & Approved By : <u>JA 07.04.12</u> | |
| Comment : Est: 1 02.10.02 Re-format; Change to Dwg Rev. D & incorporated D2572 KJ | |

Additional Product

Job Number:



| | | |
|---------|-----------------------|---------------|
| Seq. #: | Machine Or Operation: | Description : |
|---------|-----------------------|---------------|

| | | |
|-----|----------|-------------------------|
| 1.0 | D6101005 | 7075-T7351 8.25X5.0X2.5 |
|-----|----------|-------------------------|



Comment: Qty.: 1.0000 Each(s)/Unit Total : 12.0000 Each(s)
 7075-T7351 8.25X5.0X2.5
 Make from D6101-005 billet for D2572
 Ensure that grain is along 5.00" length
 Batch No: 25352

MS 07/04/25

12

| | | |
|-----|-------|--------------------------------|
| 2.0 | HAAS1 | HAAS CNC VERTICAL MACHINING #1 |
|-----|-------|--------------------------------|



Comment: HAAS CNC VERTICAL MACHINING #1

Program Batch No. 31714 Double check by: SL

1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets
 2-Machine Step No 2 per Folio FA051 and inspect per attached Dimension Sheets
 3-Machine Step No 3 per Folio FA051 and inspect per attached Dimension Sheets
 4-Deburr and remove all machining marks
 5-Tumble to remove shap edges.

EP/MS 07/04/25

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|-----|---------------|------------------------------|
| 3.0 | MILLING CONV. | CONVENTIONAL MILLING MACHINE |
|-----|---------------|------------------------------|



Comment: CONVENTIONAL MILLING MACHINE

Machine keyway as per dwg D2571 & D2572

MS/EP 07/05/03

| | | |
|-----|-----|----------------------------------------|
| 4.0 | QC2 | INSPECT PARTS AS THEY COME OFF MACHINE |
|-----|-----|----------------------------------------|



Comment: INSPECT PARTS AS THEY COME OFF MACHINE

MS/EP

07/05/03

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes ☒ No ☐ DQA: ☒ Date: 07/05/08

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Date: Thursday, 4/12/2007 8:44:47 AM

User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: SADDLE FITTING, FWD (OUTBOARD/INBOARD)

Job Number: 31714

Part Number: D2572

Job Number:



Seq. #:

Machine Or Operation:

Description :

5.0

QC8

SECOND CHECK



Comment: SECOND CHECK

JL 07/05/03

6.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Acid etch and Alodine as per QSI 005 4.1

F2L

07/05/03

7.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3

SL

07-05-07 (12)

8.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT

07/05/08 (12)

9.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: _____

07/05/08 (12)

10.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

07/05/08 (12)

Job Completion



07/05/08

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

| | | |
|-----------------------------------------|---------------------|-------------|
| DART AEROSPACE LTD | Work Order: | 31714 |
| Description: Saddle, Fwd Inboard | Part Number: | D2572 |
| Inspection Dwg: D2572 Rev. E | | Page 1 of 1 |

Inspect dimensions highlighted on inspection sheet drawing D2572 Rev. E and record below:

| | | | | Recorded Actual Dimensions | | | | | |
|---------------|-------|-------|----------------|----------------------------|-------|-------|-------|----|------|
| Dim | Min | Max | Go/No Go Gauge | 1 | 2 | 3 | 4 | By | Date |
| A | 0.438 | 0.443 | DT8682 | 0.440 | 0.440 | 0.440 | 0.440 | | |
| B | 1.745 | 1.755 | | 1.747 | 1.749 | 1.747 | 1.750 | | |
| C | 3.495 | 3.505 | | 3.499 | 3.500 | 3.500 | 3.500 | | |
| D | 1.745 | 1.755 | | 1.747 | 1.749 | 1.747 | 1.747 | | |
| E | 7.990 | 8.010 | | 8.003 | 8.002 | 8.002 | 8.001 | | |
| F | 0.490 | 0.510 | | 0.496 | 0.497 | 0.500 | 0.500 | | |
| G | 0.257 | 0.262 | DT8683 | 0.260 | 0.260 | 0.260 | 0.260 | | |
| H | 0.375 | 0.380 | DT8684 | 0.377 | 0.377 | 0.377 | 0.377 | | |
| I | 0.490 | 0.510 | | 0.495 | 0.497 | 0.499 | 0.499 | | |
| J | 1.174 | 1.184 | | 1.175 | 1.175 | 1.177 | 1.177 | | |
| K | 0.558 | 0.578 | | 0.565 | 0.566 | 0.563 | 0.563 | | |
| L | 1.174 | 1.184 | | 1.175 | 1.175 | 1.177 | 1.177 | | |
| M | 1.490 | 1.500 | | 1.495 | 1.495 | 1.492 | 1.493 | | |
| N | 2.495 | 2.505 | | 2.500 | 2.498 | 2.498 | 2.498 | | |
| O | 3.869 | 3.879 | | 3.872 | 3.871 | 3.872 | 3.872 | | |
| P | 0.115 | 0.135 | | 0.123 | 0.123 | 0.124 | 0.125 | | |
| Q | 0.115 | 0.135 | | 0.135 | 0.135 | 0.135 | 0.135 | | |
| R | 0.240 | 0.260 | | 0.253 | 0.253 | 0.252 | 0.252 | | |
| S | 0.115 | 0.135 | | 0.126 | 0.124 | 0.123 | 0.123 | | |
| T | 0.178 | 0.198 | | 0.188 | 0.188 | 0.188 | 0.188 | | |
| U | 2.940 | 2.980 | | 2.960 | 2.960 | 2.960 | 2.960 | | |
| V | 0.230 | 0.250 | | 0.237 | 0.237 | 0.237 | 0.237 | | |
| W | 0.115 | 0.135 | | 0.127 | 0.127 | 0.130 | 0.130 | | |
| X | 0.307 | 0.312 | | 0.311 | 0.311 | 0.311 | 0.310 | | |
| Y | 0.760 | 0.765 | | 0.765 | 0.765 | 0.765 | 0.765 | | |
| Z | 0.352 | 0.372 | | 0.365 | 0.366 | 0.360 | 0.360 | | |
| AA | 0.470 | 0.530 | | 0.500 | 0.500 | 0.500 | 0.500 | | |
| AB | 0.615 | 0.635 | | 0.627 | 0.625 | 0.627 | 0.627 | | |
| AC | 0.053 | 0.073 | | 0.063 | 0.063 | 0.063 | 0.063 | | |
| AD | 0.240 | 0.260 | | 0.248 | 0.250 | 0.250 | 0.250 | | |
| AE | 1.375 | 1.395 | | 1.386 | 1.385 | 1.384 | 1.384 | | |
| AF | 0.115 | 0.135 | | 0.135 | 0.135 | 0.135 | 0.135 | | |
| AG | 0.240 | 0.280 | | 0.260 | 0.260 | 0.260 | 0.260 | | |
| AH | 0.240 | 0.260 | | 0.250 | 0.250 | 0.251 | 0.251 | | |
| AI | 2.000 | 2.020 | | 2.000 | 2.000 | 2.000 | 2.000 | | |
| AJ | 0.023 | 0.043 | | 0.033 | 0.033 | 0.033 | 0.033 | | |
| Accept/Reject | | | | | | | | | |

| | |
|--------------|----------|
| Measured by: | Er |
| Date: | 02/01/26 |

| | |
|-------------|----------|
| Audited by: | JL |
| Date: | 07/05/03 |

| Rev | Date | Change | Revised by | Approved |
|-----|----------|-----------------------------------------|------------|----------|
| A | | New Issue | RF | |
| B | 02.09.24 | Re-format; Added Rev. D | KJ | |
| C | 02.10.11 | Re-format; Added DT8682, DT8683, DT8684 | KJ | |
| D | 05.05.05 | Added dimension AI | KJ/RF | |
| E | 05.12.05 | Added dimension AJ | KJ/JLM | |

| | | |
|-----------------------------------------|---------------------|-------------|
| DART AEROSPACE LTD | Work Order: | 31714 |
| Description: Saddle, Fwd Inboard | Part Number: | D2572 |
| Inspection Dwg: D2572 Rev. E | | Page 1 of 1 |

Inspect dimensions highlighted on inspection sheet drawing D2572 Rev. E and record below:

| | | | | Recorded Actual Dimensions | | | | | |
|---------------|-------|-------|----------------|----------------------------|-------|-------|-------|----|------|
| Dim | Min | Max | Go/No Go Gauge | 1 | 2 | 3 | 4 | By | Date |
| A | 0.438 | 0.443 | DT8682 | 0.440 | 0.440 | 0.440 | 0.440 | | |
| B | 1.745 | 1.755 | | 1.747 | 1.749 | 1.746 | 1.748 | | |
| C | 3.495 | 3.505 | | 3.500 | 3.498 | 3.500 | 3.500 | | |
| D | 1.745 | 1.755 | | 1.750 | 1.749 | 1.746 | 1.748 | | |
| E | 7.990 | 8.010 | | 8.001 | 8.002 | 8.002 | 8.003 | | |
| F | 0.490 | 0.510 | | 0.501 | 0.497 | 0.496 | 0.494 | | |
| G | 0.257 | 0.262 | DT8683 | 0.258 | 0.260 | 0.260 | 0.260 | | |
| H | 0.375 | 0.380 | DT8684 | 0.376 | 0.377 | 0.377 | 0.377 | | |
| I | 0.490 | 0.510 | | 0.500 | 0.498 | 0.499 | 0.498 | | |
| J | 1.174 | 1.184 | | 1.177 | 1.177 | 1.177 | 1.178 | | |
| K | 0.558 | 0.578 | | 0.568 | 0.563 | 0.565 | 0.566 | | |
| L | 1.174 | 1.184 | | 1.176 | 1.177 | 1.177 | 1.178 | | |
| M | 1.490 | 1.500 | | 1.495 | 1.492 | 1.493 | 1.493 | | |
| N | 2.495 | 2.505 | | 2.500 | 2.498 | 2.499 | 2.499 | | |
| O | 3.869 | 3.879 | | 3.872 | 3.871 | 3.871 | 3.871 | | |
| P | 0.115 | 0.135 | | 0.123 | 0.122 | 0.123 | 0.123 | | |
| Q | 0.115 | 0.135 | | 0.135 | 0.135 | 0.135 | 0.135 | | |
| R | 0.240 | 0.260 | | 0.253 | 0.252 | 0.251 | 0.252 | | |
| S | 0.115 | 0.135 | | 0.126 | 0.125 | 0.123 | 0.125 | | |
| T | 0.178 | 0.198 | | 0.188 | 0.188 | 0.188 | 0.188 | | |
| U | 2.940 | 2.980 | | 2.960 | 2.960 | 2.960 | 2.960 | | |
| V | 0.230 | 0.250 | | 0.237 | 0.237 | 0.237 | 0.238 | | |
| W | 0.115 | 0.135 | | 0.127 | 0.130 | 0.125 | 0.126 | | |
| X | 0.307 | 0.312 | | 0.310 | 0.310 | 0.311 | 0.311 | | |
| Y | 0.760 | 0.765 | | 0.762 | 0.765 | 0.765 | 0.765 | | |
| Z | 0.352 | 0.372 | | 0.365 | 0.360 | 0.362 | 0.362 | | |
| AA | 0.470 | 0.530 | | 0.500 | 0.500 | 0.500 | 0.500 | | |
| AB | 0.615 | 0.635 | | 0.627 | 0.626 | 0.626 | 0.626 | | |
| AC | 0.053 | 0.073 | | 0.063 | 0.063 | 0.063 | 0.063 | | |
| AD | 0.240 | 0.260 | | 0.250 | 0.251 | 0.251 | 0.250 | | |
| AE | 1.375 | 1.395 | | 1.384 | 1.385 | 1.385 | 1.386 | | |
| AF | 0.115 | 0.135 | | 0.125 | 0.135 | 0.135 | 0.135 | | |
| AG | 0.240 | 0.280 | | 0.260 | 0.260 | 0.260 | 0.260 | | |
| AH | 0.240 | 0.260 | | 0.250 | 0.251 | 0.247 | 0.248 | | |
| AI | 2.000 | 2.020 | | 2.000 | 2.000 | 2.000 | 2.000 | | |
| AJ | 0.023 | 0.043 | | 0.032 | 0.033 | 0.033 | 0.033 | | |
| Accept/Reject | | | | | | | | | |

| | |
|--------------|----------|
| Measured by: | EN / MS |
| Date: | 07/04/30 |

| | |
|-------------|----------|
| Audited by: | J.L |
| Date: | 07/05/02 |

| Rev | Date | Change | Revised by | Approved |
|-----|----------|-----------------------------------------|------------|----------|
| A | | New Issue | RF | |
| B | 02.09.24 | Re-format; Added Rev. D | KJ | |
| C | 02.10.11 | Re-format; Added DT8682, DT8683, DT8684 | KJ | |
| D | 05.05.05 | Added dimension AI | KJ/RF | |
| E | 05.12.05 | Added dimension AJ | KJ/JLM | |

| | | |
|-----------------------------------------|---------------------|--------------------|
| DART AEROSPACE LTD | Work Order: | 31714 |
| Description: Saddle, Fwd Inboard | Part Number: | D2572 |
| Inspection Dwg: D2572 Rev. E | | Page 1 of 1 |

Inspect dimensions highlighted on inspection sheet drawing D2572 Rev. E and record below:

| Dim | Min | Max | Go/No Go Gauge | Recorded Actual Dimensions | | | | By | Date |
|---------------|-------|-------|----------------|----------------------------|-------|-------|-------|----|------|
| | | | | 1 | 2 | 3 | 4 | | |
| A | 0.438 | 0.443 | DT8682 | 0.440 | 0.440 | 0.440 | 0.440 | | |
| B | 1.745 | 1.755 | | 1.746 | 1.746 | 1.746 | 1.750 | | |
| C | 3.495 | 3.505 | | 3.499 | 3.498 | 3.501 | 3.499 | | |
| D | 1.745 | 1.755 | | 1.746 | 1.746 | 1.748 | 1.750 | | |
| E | 7.990 | 8.010 | | 8.002 | 8.003 | 8.003 | 8.004 | | |
| F | 0.490 | 0.510 | | 0.501 | 0.499 | 0.492 | 0.485 | | |
| G | 0.257 | 0.262 | DT8683 | 0.260 | 0.260 | 0.260 | 0.260 | | |
| H | 0.375 | 0.380 | DT8684 | 0.377 | 0.377 | 0.377 | 0.377 | | |
| I | 0.490 | 0.510 | | 0.497 | 0.496 | 0.494 | 0.498 | | |
| J | 1.174 | 1.184 | | 1.176 | 1.177 | 1.177 | 1.175 | | |
| K | 0.558 | 0.578 | | 0.566 | 0.567 | 0.567 | 0.566 | | |
| L | 1.174 | 1.184 | | 1.176 | 1.177 | 1.177 | 1.175 | | |
| M | 1.490 | 1.500 | | 1.494 | 1.494 | 1.495 | 1.484 | | |
| N | 2.495 | 2.505 | | 2.495 | 2.497 | 2.497 | 2.497 | | |
| O | 3.869 | 3.879 | | 3.870 | 3.872 | 3.872 | 3.872 | | |
| P | 0.115 | 0.135 | | 0.123 | 0.123 | 0.127 | 0.122 | | |
| Q | 0.115 | 0.135 | | 0.135 | 0.135 | 0.135 | 0.135 | | |
| R | 0.240 | 0.260 | | 0.254 | 0.254 | 0.253 | 0.252 | | |
| S | 0.115 | 0.135 | | 0.125 | 0.126 | 0.122 | 0.126 | | |
| T | 0.178 | 0.198 | | 0.188 | 0.188 | 0.188 | 0.188 | | |
| U | 2.940 | 2.980 | | 2.960 | 2.960 | 2.960 | 2.960 | | |
| V | 0.230 | 0.250 | | 0.238 | 0.236 | 0.235 | 0.235 | | |
| W | 0.115 | 0.135 | | 0.129 | 0.128 | 0.131 | 0.132 | | |
| X | 0.307 | 0.312 | | 0.311 | 0.311 | 0.311 | 0.311 | | |
| Y | 0.760 | 0.765 | | 0.765 | 0.765 | 0.765 | 0.765 | | |
| Z | 0.352 | 0.372 | | 0.362 | 0.362 | 0.362 | 0.362 | | |
| AA | 0.470 | 0.530 | | 0.500 | 0.500 | 0.500 | 0.500 | | |
| AB | 0.615 | 0.635 | | 0.625 | 0.625 | 0.625 | 0.624 | | |
| AC | 0.053 | 0.073 | | 0.063 | 0.063 | 0.063 | 0.063 | | |
| AD | 0.240 | 0.260 | | 0.251 | 0.251 | 0.250 | 0.252 | | |
| AE | 1.375 | 1.395 | | 1.385 | 1.386 | 1.385 | 1.385 | | |
| AF | 0.115 | 0.135 | | 0.135 | 0.135 | 0.135 | 0.135 | | |
| AG | 0.240 | 0.280 | | 0.260 | 0.260 | 0.260 | 0.260 | | |
| AH | 0.240 | 0.260 | | 0.249 | 0.248 | 0.247 | 0.248 | | |
| AI | 2.000 | 2.020 | | 2.000 | 2.000 | 2.000 | 2.000 | | |
| AJ | 0.023 | 0.043 | | 0.033 | 0.033 | 0.033 | 0.033 | | |
| Accept/Reject | | | | | | | | | |

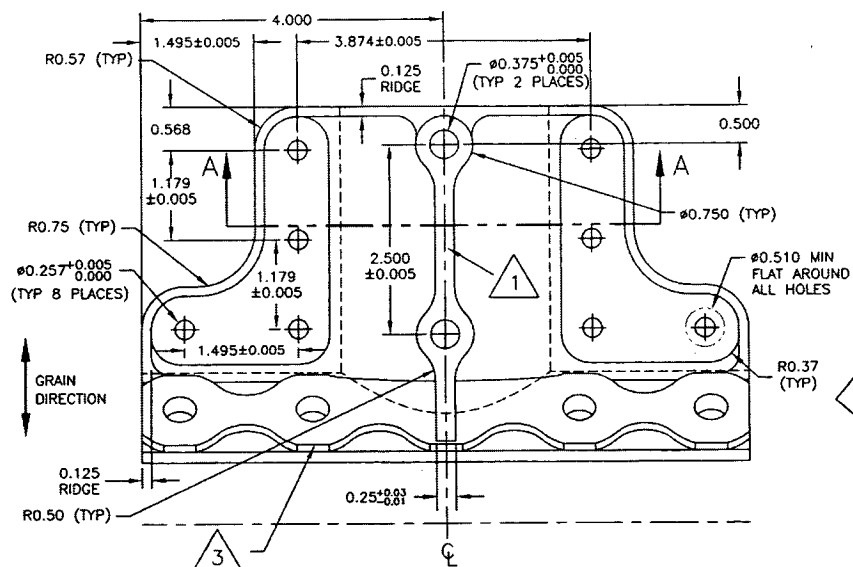
| | |
|--------------|----------|
| Measured by: | En |
| Date: | 07/05/03 |

| | |
|-------------|----------|
| Audited by: | J.L |
| Date: | 07/05/03 |

| Rev | Date | Change | Revised by | Approved |
|-----|----------|-----------------------------------------|------------|----------|
| A | | New Issue | RF | |
| B | 02.09.24 | Re-format; Added Rev. D | KJ | |
| C | 02.10.11 | Re-format; Added DT8682, DT8683, DT8684 | KJ | |
| D | 05.05.05 | Added dimension AI | KJ/RF | |
| E | 05.12.05 | Added dimension AJ | KJ/JLM | |

RELEASED

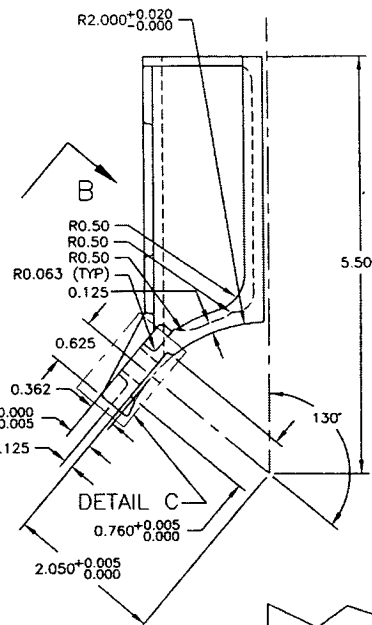
05.12.06



NOTES

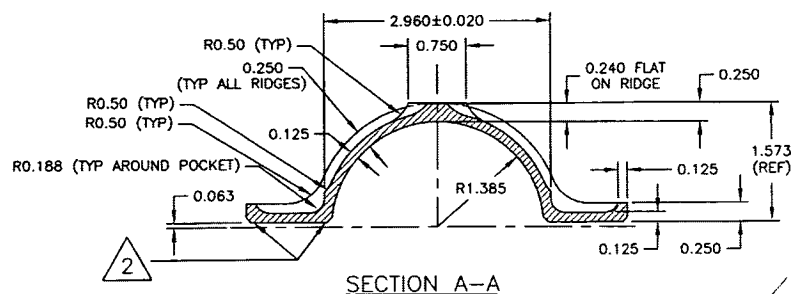
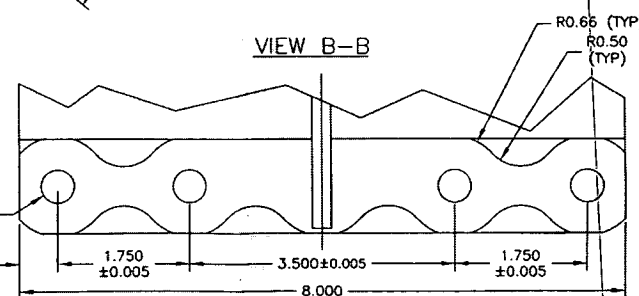
MATERIAL: 7075-T7351 (QQ-A-250/12)
(REF DART SPEC. D6102-003)
FINISH: ACID ETCH, ALODINE PER DART QSI 005 4.1
POWDER COAT GLOSS WHITE (REF 4.3.5.1) PER
DART QSI 005 4.3
BREAK ALL SHARP EDGES 0.010 TO 0.020
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

- 1 ENGRAVE PART AND BATCH NUMBER IN THIS AREA TO MAX DEPTH OF 0.010
2 CHAMFER 0.063" x 45° AROUND THIS SURFACE (TYPICAL 2 PLACES)
3 CHAMFER 0.063 x 45° ALL AROUND
4 CHAMFER 0.033 x 45° (SEE DETAIL C) E



DETAIL C

VIEW B-B



SECTION A-A

DETAIL C
SCALE 2:1

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DART AEROSPACE LTD.

| | | | |
|---------|----------|------------------------------------------------------------|------------------|
| E | 05.07.13 | ADD CHAMFER ON RIDGE NOTE 4 | |
| D | 02.09.06 | ADD RIDGES; TIGHTEN TOLERANCES | |
| C | 99.10.22 | INCORP. DEO 9123/9079/9102 ADD DIMENSIONS PER TSR A1177 | |
| B | 96.12.02 | ADD GRAIN DIR., 0.438 WAS 0.425 | |
| A | 96.09.16 | NEW ISSUE | |
| DESIGN | DS | DRAWN BY | PH |
| CHECKED | # | APPROVED | # |
| DATE | 05.07.13 | DRAWING NO. | D2572 |
| | | TITLE | INNER FWD SADDLE |
| | | REV. E | SHEET OF 1 |
| | | SCALE | 2:3 |

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RETURN TO
ENGINEERING
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NO. 31714